



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Richard A. SCHUMACHER et al.

Serial No.: 10/715,819

Group Art Unit: Unassigned

Filed: November 19, 2003

Examiner: Unassigned

For: PHOSPHODIESTERASE 4 INHIBITORS

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows:

Timing and Fees

- Under 37 C.F.R. § 1.97(b), no fee or statement is required for filing this information disclosure statement is filed:
 - within three months of the filing date of a national application other than a CPA under § 1.53(d);
 - within three months of the actual filing date of the national phase of a PCT application; OR
 - before the mailing of a first substantive office action (including after filing of an RCE).
- Under 37 C.F.R. § 1.97(c), this information disclosure statement is filed after the periods specified in 37 C.F.R. § 1.97(b), but before the mailing date of:
 - a final rejection under 37 C.F.R. 1.113;
 - termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P. § 609(B)(2); OR
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is accompanied by:

- the statement as specified in 37 C.F.R. § 1.97(e) set out below; OR
 - a check covering the fee of \$180.00 under 37 C.F.R. § 1.17(p).
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- the statement as specified in 37 C.F.R. § 1.97(e) as set forth below, and the fee of \$180.00 under 37 C.F.R. § 1.17(p).

Statements Under 37 C.F.R. 1.97(e)

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Cited Materials

- Copies of materials listed but not attached were cited in benefit (35 U.S.C. § 120) ancestor application Serial No. _____, on Form 892 by the Examiner and/or Form 1449 by the applicant; see 37 C.F.R. § 1.98(d).
- Copies of materials listed but not attached were cited in an international search report dated _____.
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Non-English Language References

- An English-language search report or equivalent paper from a foreign patent office is provided indicating the relevance of the cited reference(s).
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 - X = document of particular relevance when it is taken alone
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Other Information

The instant application is related to copending patent applications Serial No. 10/051,309, filed January 22, 2002, Serial No. 10/361,634 filed February 11, 2003, Serial No. 10/754,600, filed January 12, 2004, Serial No. 10/662,833, filed July 21, 2003; and Serial No. 10/662,117, filed July 18, 2003. Enclosed are copies of documents cited in said related applications.

Payment of Fees Due (If Any):

- A check for \$_____ covering the fee identified above is attached.
- Please charge to Deposit Account No. 13-3402 \$_____ for the fee identified above.

The Commissioner is hereby authorized to charge or credit any overpayment to Deposit Account #13-3402, two copies of this paper are attached for this purpose.

Respectfully submitted,



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Attorney Docket No.: MEMORY-35

Date: March 4, 2004

BPH/rrt

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Sheet

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Group Art Unit	Unassigned
Examiner Name	Unassigned

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		5,591,776		Cavalla et al.	01/07/1997	
		5,622,977		Warrelow et al.	04/22/1997	
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1	5,880,135				3/9/1999	
2	6,262,040				7/17/2001	
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4	5,889,014				3/30/1999	
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		FR	2729142	A1	Nadler et al.	07/12/1996	
		EP	1116711	A2	Chassot et al	07/18/2001	
		EP	0994100	A1	Shinji et al.	04/19/2000	
		WIPO	96/21435	A1	Cavalla et al	07/18/1996	
		WIPO	00/71129	A1	Hunt et al	11/30/2000	
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		WO	97 00868		PCT	1/9/1997	1
		WO	98 09961		PCT	3/12/1998	2
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		WO	00 69841		PCT	11/23/2000	
		WO	96 21435			7/18/1996	4, 5
		WO	02 074726			9/26/2002	6

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		HEILMAN et al, "Synthesis and Antiinflammatory Evaluation of Substituted Isophthalonitriles, Trimesonitriles, Benzonitriles, and Terephthalonitriles", Journal of Medicinal Chemistry, 1978, Vol. 21, No. 9, pp. 906-913, XP-002226236		
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		JAMES E. KELLEY et al., "Antirhinovirus structure-activity relationships of 6-substituted-9-(4-methylbenzyl)-2-trifluoromethyl-9H-purines," Eur. J. Med. Chem., 1990, pp. 131-135, Vol. 25		

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		ROGER J. SCHILLING et al., "A High-Throughput Assay For Cyclic Nucleotide Phosphodiesterases," <u>Analytical Biochemistry</u> , 1994, pp.154-158, Vol. 215		
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		JAMES L. KELLEY et al., "6-(Alkylamino)-9-alkylpurines. A New Class of Potential Antipsychotic Agents," <u>J. Med. Chem.</u> , 1997, pp. 3207-3216, Vol. 40		
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		Peng WANG et al., "Expression, Purification, and Characterization of Human cAMP-Specific Phosphodiesterase (PDE4) Subtypes A, B, C, and D," <u>Biochem. And Biophys. Research Comm.</u> , Vol. 234, 320-324 (1997).		

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		Domine M. T. CHAN et al., "New N- abd O-Arylations with Phenylboronic Acids and Cupric Acetate," Tetrahedron Letters, Vol. 39, 2933-2936 (1998).		
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		Han-Ting ZHANG et al., "Inhibition of Cyclic AMP Phosphodiesterase (PDE4) Reverses Memory Deficits Associated with NDMA Receptor Antagonism," <u>Neuropsychopharmacology</u> , 2000, Vol. 23, pp. 198-204.		
		Han-Ting ZHANG et al., "Effects of Roliplam on Scopolamine-induced Impairment of Working and Reference Memory in the Radial-arm Maze tests in Rats," <u>Psychopharmacology (Berl)</u> 2000 June;150(3):pp. 311-6.		
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		Japanese Patent Abstract No. 7206789 dated 8/8/1995		

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